= nonlinear function approximator

Once we fix the hyperparometers the problem depends only on the parameters (weights)

How to find neights? Regression:

 $w = \underset{w}{\text{arg min}} E(w)$ $= \underset{w}{\text{arg min}} \sum_{h=1}^{N} (t_h - g(x_h, w))^2$

Through MIE we design enor functions. Through greatient descent we uninimize enor functions.

Remember? multi-layer classification: it can have inside the ReW, the last is softmax